

PRODUCT

MDR 16

DESCRIPTION

MIXER

SERIES

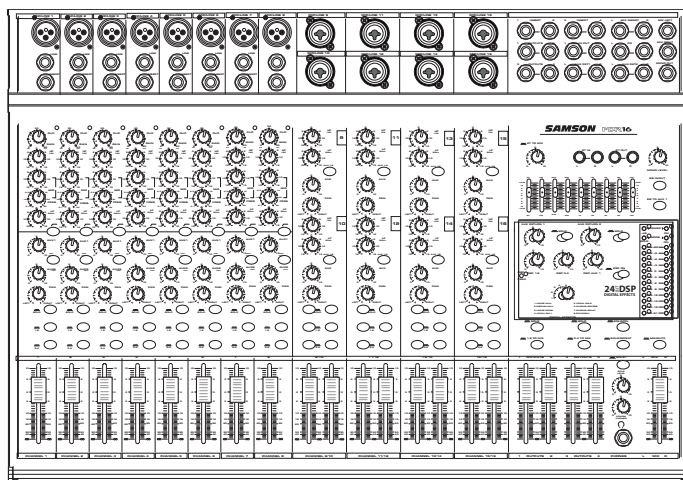
MDR

CATEGORY

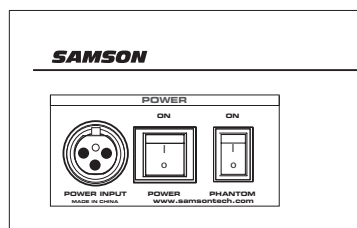
MIXERS



FRONT PANEL



BACK PANEL



GENERAL DESCRIPTION

The MDR16 is a sixteen-channel mixer, with sixteen low noise microphone pre-amps, four output buses and a built-in 24 BIT, DSP effects processor. The MDR16 features eight mono Mic/Line input channel strips with a three-band, mid-sweep equalizer plus a low cut filter. These channels also offer two auxiliary sends that can be used for creating a monitor mix and for routing your signals to effects processors. The mono channels also feature a pan control for creating a stereo image, bus output assign switches, insert points for external processing and a 60mm fader for setting the level. In addition to the mono inputs, there are eight channels set up as Stereo/Dual mono inputs with two-band equalizer, switchable aux send, pan, a utility mic input and 60mm faders. The MDR16's master section includes two stereo auxiliary returns for mixing back external and internal effects and individual controls for mixing back the DSP effect to BUS 1 & 2, BUS 3 & 4 and even to AUX 1 to add effects to your monitor mix. The MDR16 features a nine-band stereo graphic equalizer allowing you to contour the frequency response of your speaker system. In order to get the most gain before feedback when running a monitor mix, you can assign the graphic equalizer to the Aux 1 output. The MDR16 features a mono output with level control, four 60mm bus output faders for sub mixing and a 60mm stereo master fader. Optimized for recording, live sound reinforcement and commercial installations; the MDR16 is an ideal mixer solution offering big sound in a compact package.

FEATURES

- > Sixteen channels – Eight Mic/Line plus four Stereo/Dual inputs with mic pre's for a total of 16 microphone inputs.
- > On-board 24 BIT, DSP (Digital Signal Processor) multi-effects processor with eight great sounding presets including REVERB, DELAY, and CHORUS.
- > Stereo nine-band Graphic Equalizer with LED frequency band indicators and flexible routing for either main or monitor mix, for maximum gain before feedback.
- > Flexible signal routing via the 1 / 2 bus outputs, 3 / 4 bus outputs, main Left and Right Mix, as well as the Mono output.
- > 60 mm audio taper faders on all channels and the master 1 / 2, 3 / 4 and Mix outputs.

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PRODUCT SPECIFICATION SHEET

SERIES
MDR

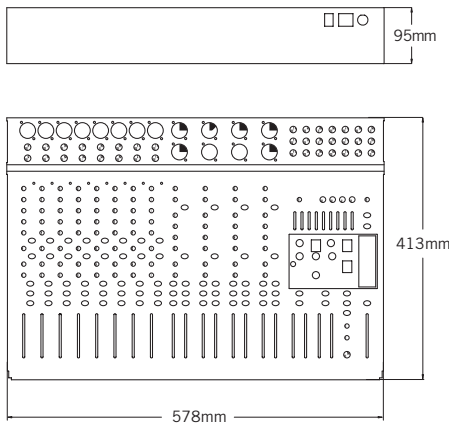
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MDR 16

FEATURES (continued)

- > 2 TK TO MIX control allows you to mix in a CD, DAT, Cassette, Computer Sound Card or Mini Disk.
- > The mono inputs feature a three-band channel equalizer with 15dB of cut or boost at 80Hz, variable mid-range from 100 Hz to 5 KHz with 15dB of cut or boost and 15dB of cut or boost at 12KHz, plus a Low Cut filter at 80Hz.
- > Two Auxiliary Sends, with Pre-Post switching on Aux 1, can be used to route signals to external effects, or to create a separate mix for on-stage monitors, or studio headphones.
- > Twelve-segment LED Meter, with VU ballistics, displays the main MIX output, plus SOLO, PFL, Phantom and Power LED indicators.
- > High quality, low noise, discrete microphone pre-amplifiers, with 48-Volt phantom power, provide Maximum Dynamic Range and transparent audio.
- > Advanced circuit design using discrete components and high quality, low noise op-amps carefully selected at each stage of the signal path.
- > Quality build and rugged construction ensure reliable performance from venue to venue and session to session.
- > Three-year extended warranty.



ARCHITECT'S & ENGINEER'S SPECIFICATIONS

The Samson MDR16 shall be a 16 input, 4 bus stereo output mixer. It shall have 8 mic channels with trim control, HF Level control, High pass switch, MF level and frequency sweep, LF Level control, 2 aux sends (one pre / post switchable), pan control, solo button, bus 1-2 switch, bus 3-4 switch and a 60mm fader. It shall have 8 mic/line channels with High frequency control, low frequency control, 1 aux control with aux 1/2 switch, pan control, solo button, bus 1-2 switch, bus 3-4 switch and 60mm fader. 60mm bus 1, 2, 3, and 4 and left and right output faders will also be available. A control room and headphone output with level control shall also be provided. 24 bit, DSP effects shall also be provided with 8 presets. A nine band graphic equalizer is also available in the master section with the ability to equalize the main mix or the aux 1 mix. The MDR16 uses an external power supply.

MDR 16 SPECIFICATIONS

- Frequency Response** (Trim @ Min, unity gain +0 / -1 dB)
 - Mic to Main 10 Hz - 30 kHz
 - Line to Main 10 Hz - 30 kHz
 - Aux Return to Main 10 Hz - 30 kHz
 - Line to Aux Send 10 Hz - 32 kHz
- T.H.D.** (Trim @ Min, +4dBu output, unity gain, 1 kHz w/30 kHz LPF)
 - Mic/Line to Main (Mono Ch) .0.02%
 - Line to Main (Stereo Ch) 0.02%
 - Line to Aux Send 0.02%
- Equivalent Input Noise** ("A" filter on, input shorted)
 - Mic.....-128 dB
 - Line.....-103 dB
- Maximum Voltage Gain**
 - Mic to Main 72 dB
 - Line to Main (Mono Ch) 56 dB
 - Line/Tape to Main (Stereo Ch) 20 dB
 - Aux Return to Main 20 dB
 - Mic to Aux Send 74 dB
 - Line to Aux Send (Stereo Ch) .41 dB
- Residual Noise** (30 kHz LPF, all control Min)
 - Main-85 dBu
 - Aux Send-82 dBu
- Crosstalk** (@ 1 kHz w/ 30 kHz LPF)
 - Ch vs. Ch-75 dB
 - Input vs. Output-86 dB
- Peak LED Sensitivity** (before clipping).... 5 dB
- CLIP Indicators** Turn on: THD> 0.1%
- Headphone output** (600 ohm load)..... 100 mW
- Maximum Input Level** (1 kHz, Ch. & Mix fader set to zero)
 - Mic Input (Mono Ch) +11 dBu
 - Line Input (Mono Ch) +27 dBu
- Input Channel Equalizer** (± 2dB)
 - High (shelving) 12 kHz ±15 dB
 - Mid (peaking) Variable 100Hz - 5 kHz ± 15 dB
 - Low (shelving) 80 Hz ±15 dB
- Meters**..... 12 POINT LED METERS (-21, -18, -16, -12, -8, -6, -3, 0, +3, +6, +9, +20) PEAK
- Internal DSP Effects** 24 BIT -8 presets: 1 - Large Hall; 2 - Medium Hall, 3- Large Room; 4 - Vocal Room 1; 5 - Vocal Room 2; 6 - Chorus + Reverb; 7 - Chorus + Delay; 8 - Stairwel
- Phantom Power** +48V
- Power Requirement** 110V-240V, 50/60Hz
- Power Consumption** 50W
- Dimensions** (W x D x H) 22.75" x 16.25" x 3.75" (578mm x 413mm x 95mm)
- Weight**..... 17.5 lbs. (8 kg)